

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

02/02/2012

Daniel Harren  
Assistant District Attorney, Middlesex County

Dear ADA Harren,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan, and Daniel Renczkowski.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renczkowski analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

Daniel Renczkowski

### Education

Degree: Bachelors of Science in Forensic Chemistry,  
May 2005 from Buffalo State College  
GPA: 3.84, Dean's List, Honor's Recognition  
American Chemical Society Undergraduate Award  
Phi Lambda Upsilon Membership

Related Coursework:	Analytical Chemistry	Physical Chemistry
	Organic Chemistry I and II	Instrumental Chemistry
	Biochemistry	Forensics Laboratory
	Chemistry of Criminalistics	Physical Evidence
	Anatomy	Physiology

### Employment

Massachusetts Department of Public Health Drug Analysis Laboratory

Chemist I (October 2005 – March 2008)

Chemist II (March 2008 – present)

- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- Successfully completed GC/MS training program
- Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- Responsible for maintenance and repairs of analytical instruments
- Responsible for quality control of analytical instruments and standards

### Related Experience

Niagara County Forensics Laboratory

Forensic Internship, January 2005

- Conducted research on the presumptive testing of saliva
- Conducted research on the identification and detection of lubricants
- Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- Daily use of FTIR microscope and DuraSamplerII
- Familiarized with GC/MS programs

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

### Experience:

2003 – present

**Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory**

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing of the Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

\*Maintenance and repairs of analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

\*Notary Public.

2001 – 2003

**QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control**

\*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques for the QC Dept. and FDA.

\*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Courses:

**Department of Justice – Forensics Professionals**

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

### Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

### Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

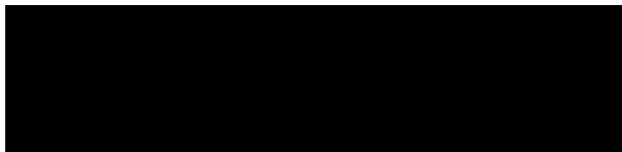
1:00 – 3:00

**DRUG RECEIPT**

City or Department: Arlington Police Reference No.: 


Name and Rank of Submitting Officer: Insp Mike Sheehan

Defendant(s) Name (last, first, initial):



*To be completed by Submitter*  
Description of Items Submitted

*To be completed by Lab Personnel*  
Gross Weight      Lab Number

plastic baggie w/ brownish powder	51/g	

Received by: ELO

Date: 4-29-09

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

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Boston Drug Laboratory

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Amherst Drug Laboratory

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Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours


9:00 – 12:00

1:00 – 3:00

**DRUG RECEIPT**

City or Department: Arlington Police Reference No.: 

Name and Rank of Submitting Officer: Insp Mike Sheehan

Defendant(s) Name (last, first, initials):  



*To be completed by Submitter*

Description of Items Submitted

*To be completed by Lab Personnel*

Gross Weight

Lab Number

Baggie w/ white powder	5.5g	

Received by:  Date: 4-29-09

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8:00 – 11:00


2:00 – 4:00

Amherst Hours


9:00 – 12:00

1:00 – 3:00

**DRUG RECEIPT**


City or Department: Arlington Police Reference No.: 


Name and Rank of Submitting Officer: Insp Mike Sheehan

Defendant(s) Name (last, first, initial):  


*To be completed by Submitter*  
Description of Items Submitted

*To be completed by Lab Personnel*  
Gross Weight      Lab Number

baggie w/ Brownish Powder	3.7g	

Received by:  Date: 4-29-09

No. [REDACTED]  
City: Arlington Police Dept.  
Officer: Inspector MIKE SHEEHAN  
Def: [REDACTED]

Date Analyzed:

12-29-09

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 04/29/2009

No. Analyzed:

Gross Wt.: 5.10

Net Weight: 0.29

# Tests: 6 ASD  
• 2 DJR

Prelim: Heroin

Findings: Heroin

No. [REDACTED]  
City: Arlington Police Dept.  
Officer: Inspector MIKE SHEEHAN  
Def: [REDACTED]

Date Analyzed:

12-29-09

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 04/29/2009

No. Analyzed:

Gross Wt.: 5.50

Net Weight: 1.81

# Tests: 6 ASD  
• 2 DJR

Prelim: cocaine

Findings: Cocaine

No. [REDACTED]  
City: Arlington Police Dept.  
Officer: Inspector MIKE SHEEHAN  
Def: [REDACTED]

Date Analyzed:

12-29-09

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 04/29/2009

No. Analyzed:

Gross Wt.: 3.70

Net Weight: 0.12

# Tests: 4 ASD

• 2 DTR

Prelim: ~~Heroin~~ ASD  
Heroin

Findings: Heroin



# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Bellingham ANALYST ADD

No. of samples tested:                      Evidence Wt.                     

## PHYSICAL DESCRIPTION:

Beige powdered substance  
in 1 ps

Gross Wt ( ): 1.5579

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 0.2927

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

### Microcrystalline Tests

Gold  
Chloride                     

TLTA ( )                     

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 12-24-09

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR DSR

DATE 12-29-09

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Arlington ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

white powdered + chunky  
substance in pb

Gross Wt ( ): 1.8232

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 1.8117

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA (+)

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 12-24-09

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR DSE

DATE 12-29-09

SAMPLE # [REDACTED] AGENCY Arlington ANALYST ASJ

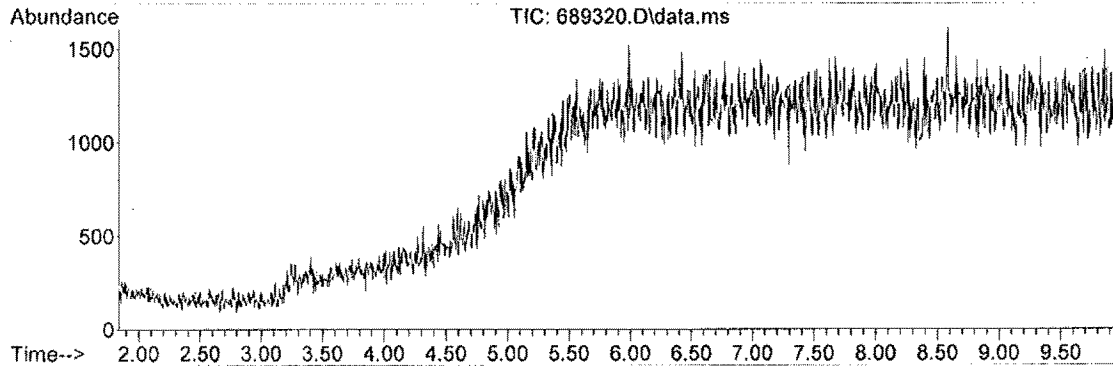
Evidence Wt. \_\_\_\_\_

Net Wt: 0.1263

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689320.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 17:34  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

✓ DJR  
1-31-12

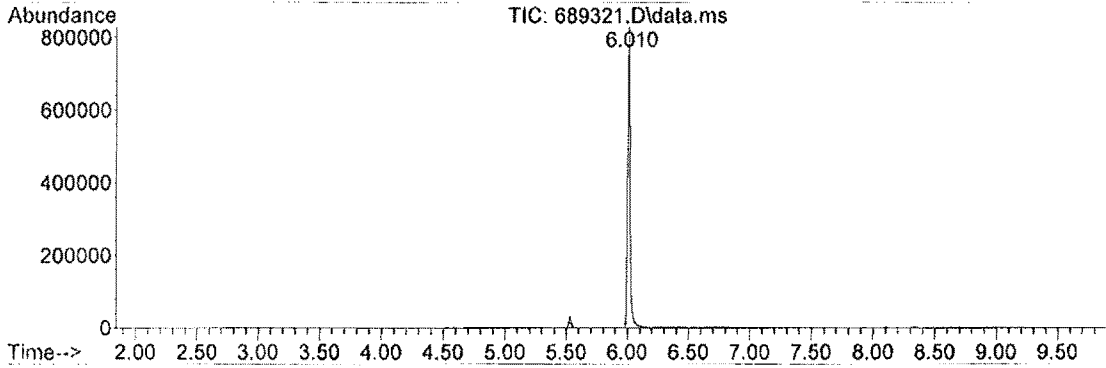


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689321.D  
 Operator : DJR  
 Date Acquired : 28 Dec 2009 17:47  
 Sample Name : HEROIN STD  
 Submitted by :  
 Vial Number : 21  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



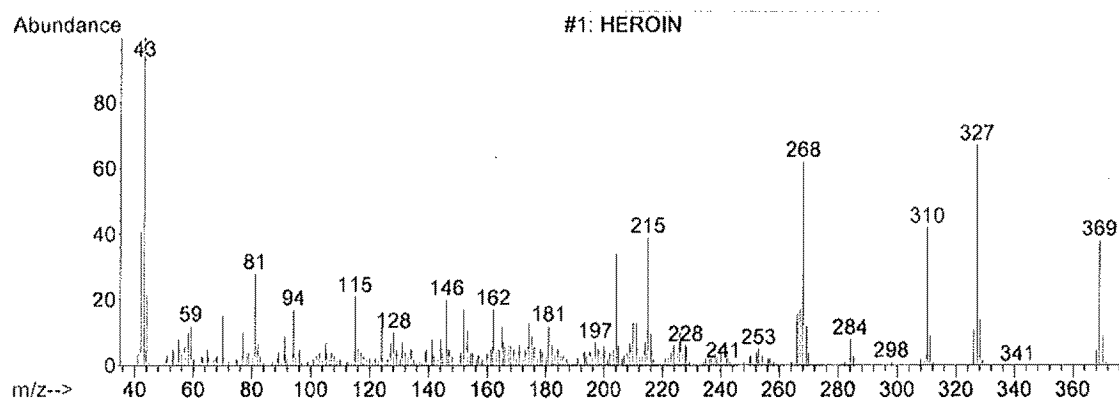
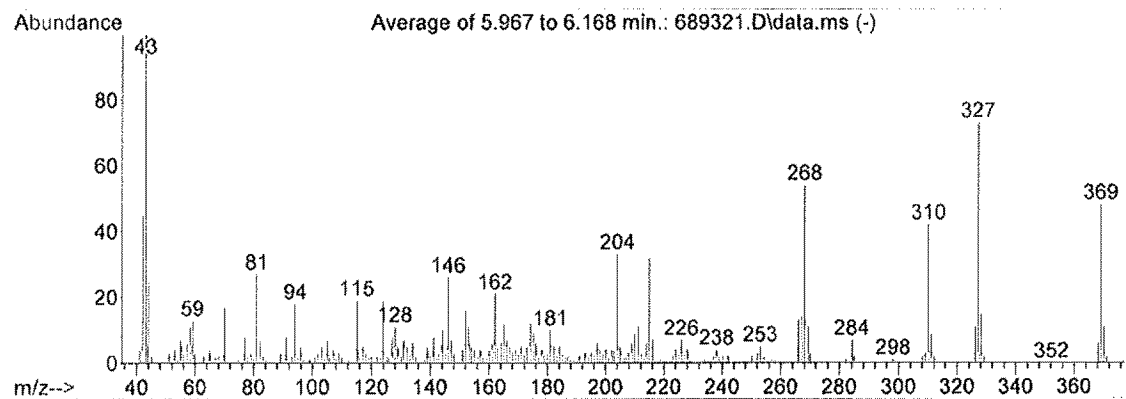
Ret. Time	Area	Area %	Ratio %
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## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689321.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 17:47  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 21  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.01	C:\Database\SLI.L HEROIN	000561-27-3	99

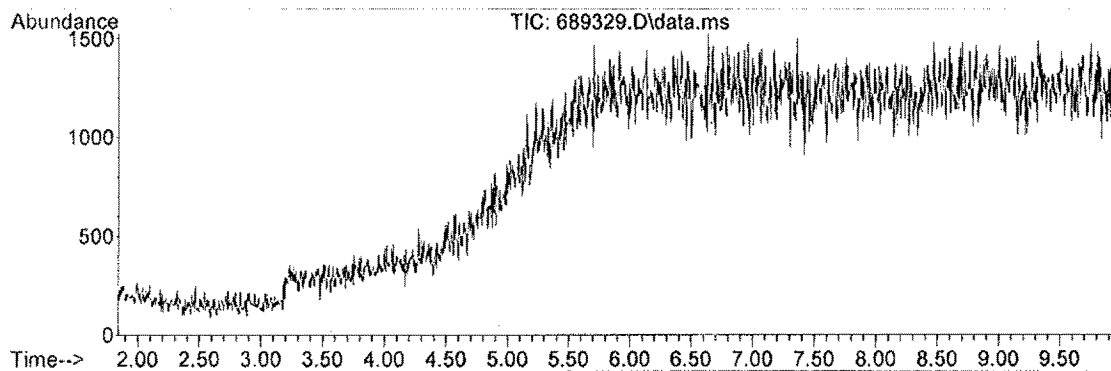


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Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689329.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 19:28  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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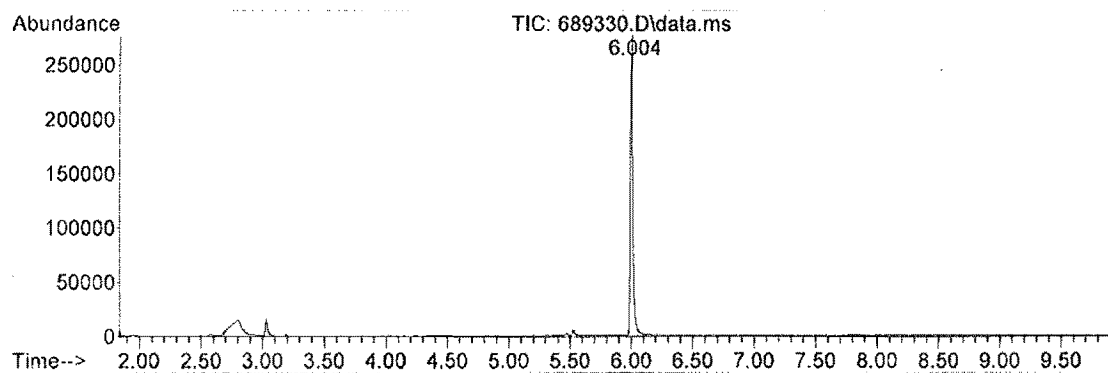
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689330.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 19:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.004	394352	100.00	100.00

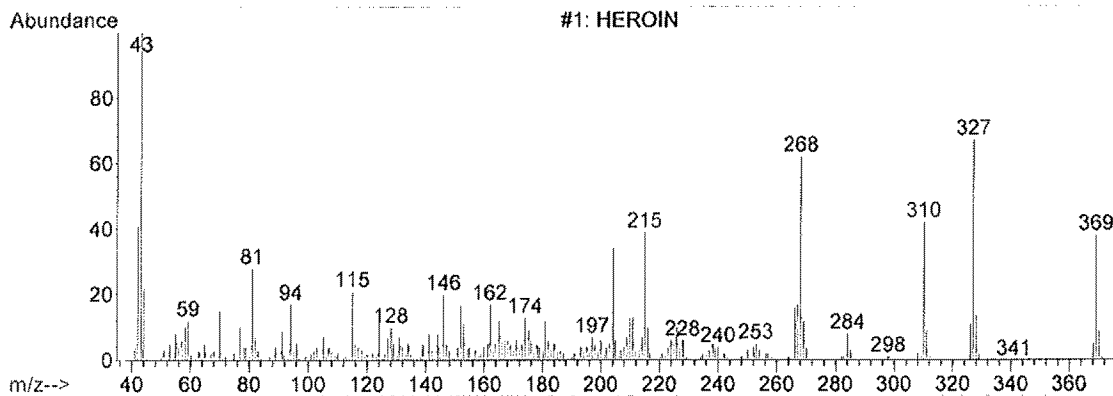
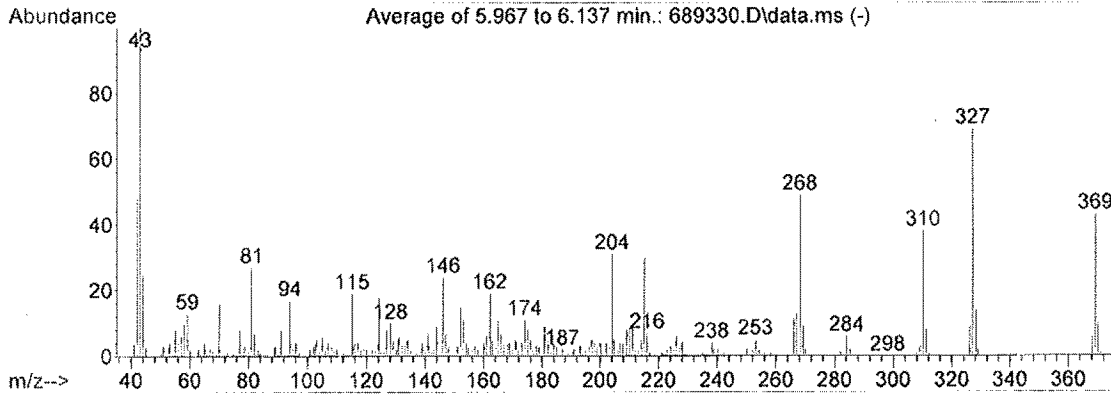


## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689330.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 19:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

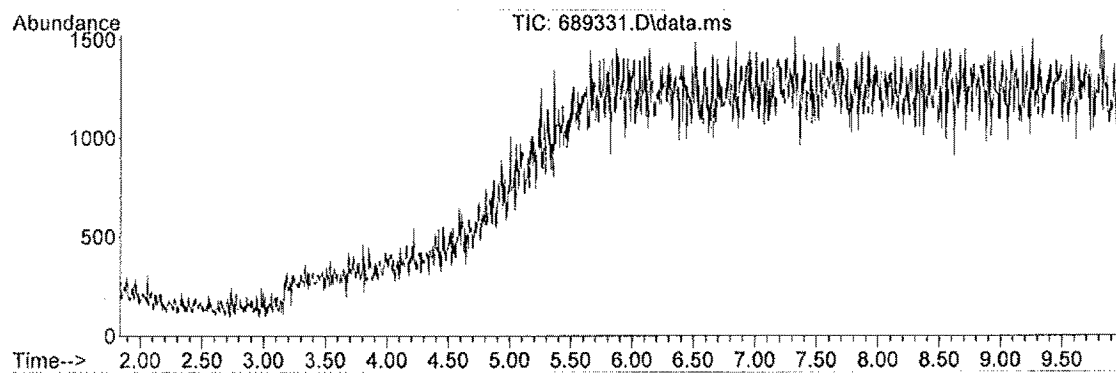
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.00	C:\Database\SLI.L HEROIN	000561-27-3	99



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689331.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 19:54  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

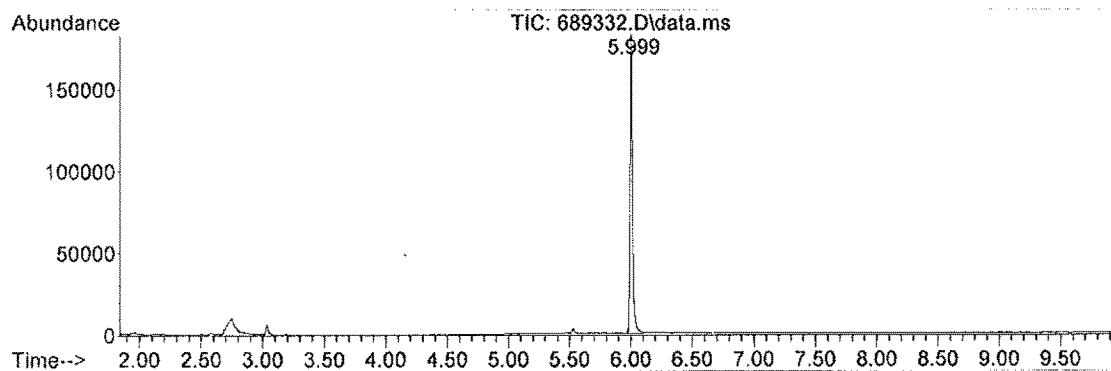


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689332.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 20:06  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 32  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



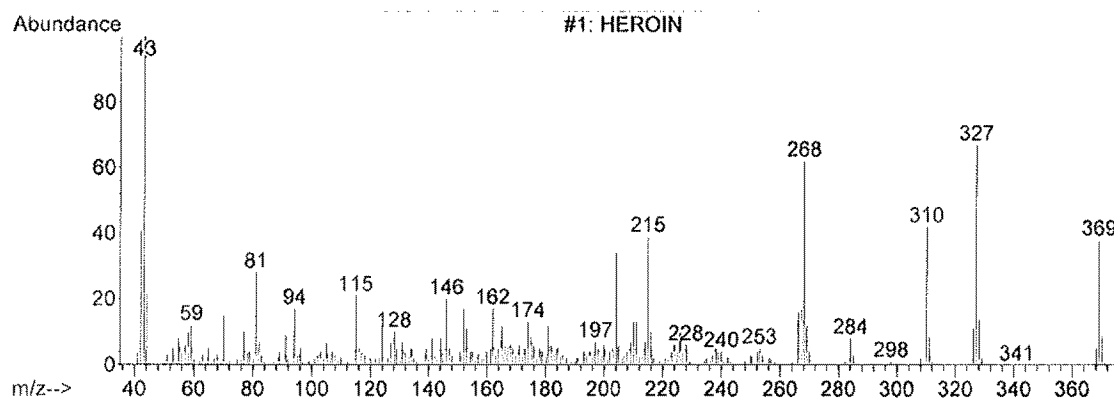
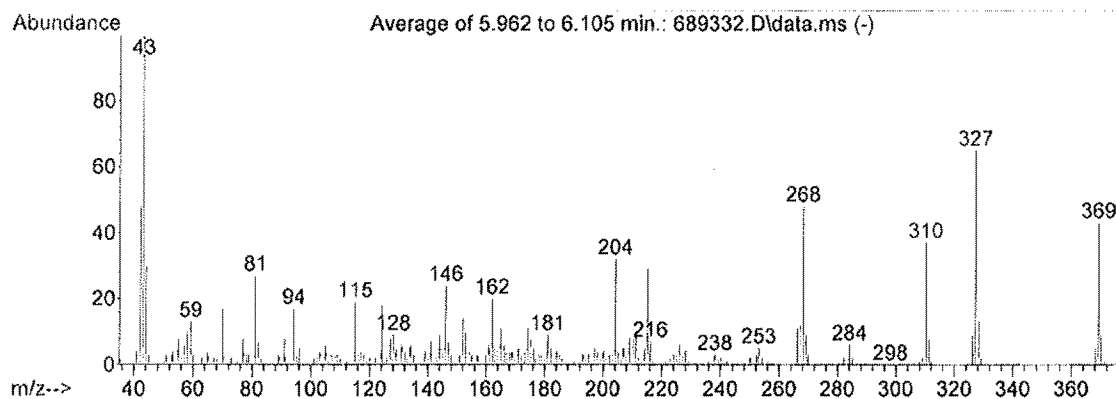
Ret. Time	Area	Area %	Ratio %
5.999	250019	100.00	100.00

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689332.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 20:06  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 32  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.00	C:\Database\SLI.L HEROIN	000561-27-3	87

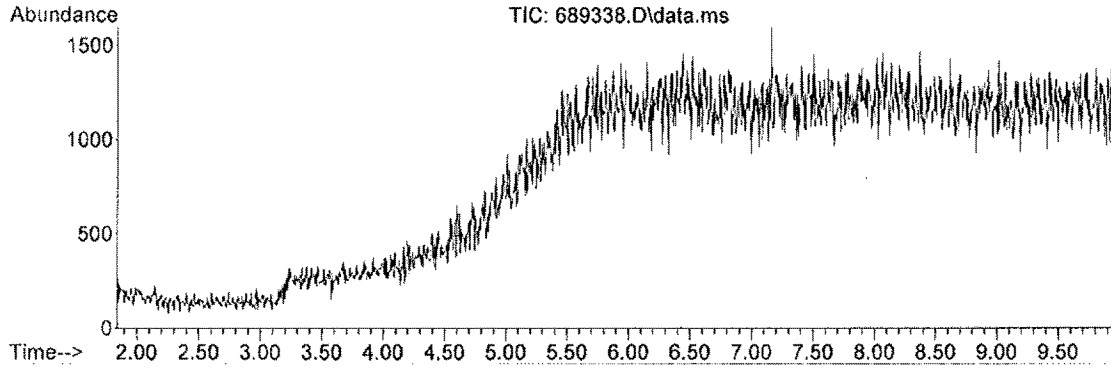


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Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689338.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 21:22  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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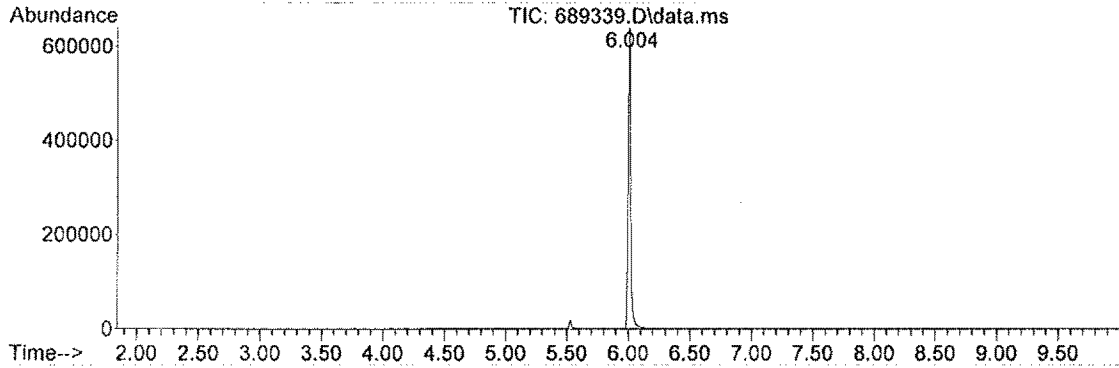
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689339.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 21:35  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 39  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



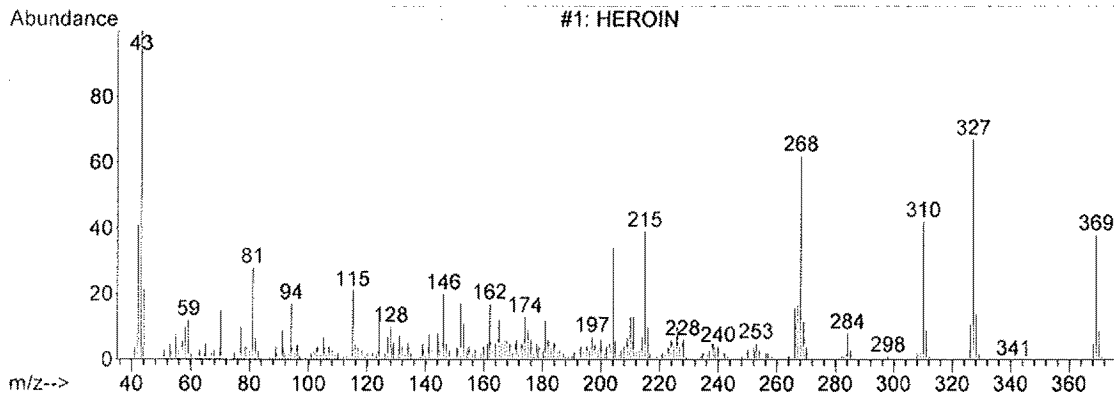
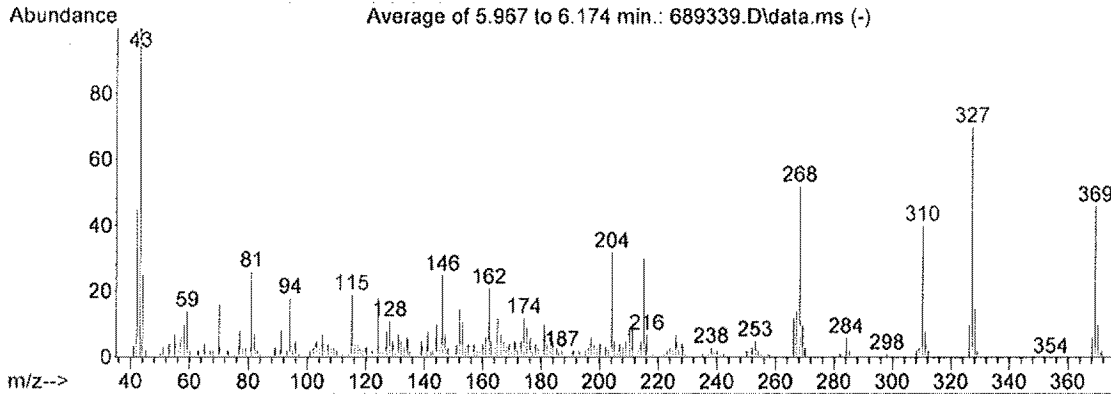
Ret. Time	Area	Area %	Ratio %
6.004	929802	100.00	100.00

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689339.D  
Operator : DJR  
Date Acquired : 28 Dec 2009 21:35  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 39  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.00	C:\Database\SLI.L HEROIN	000561-27-3	94

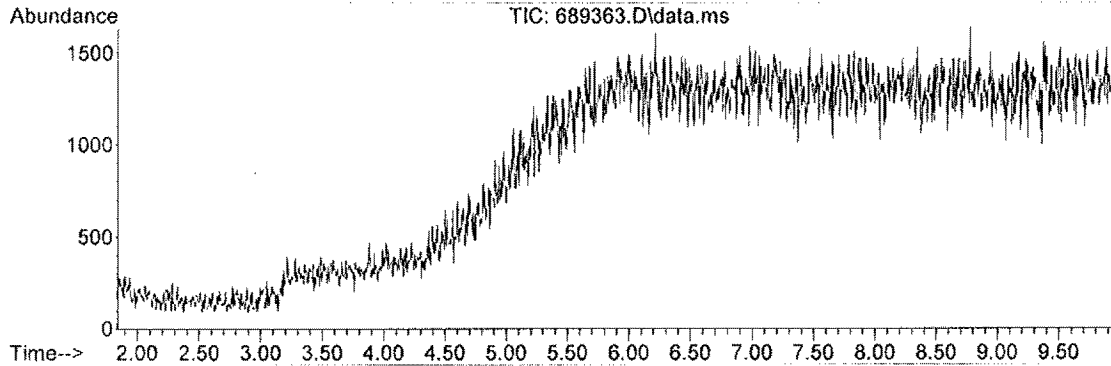


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Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689363.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 2:40  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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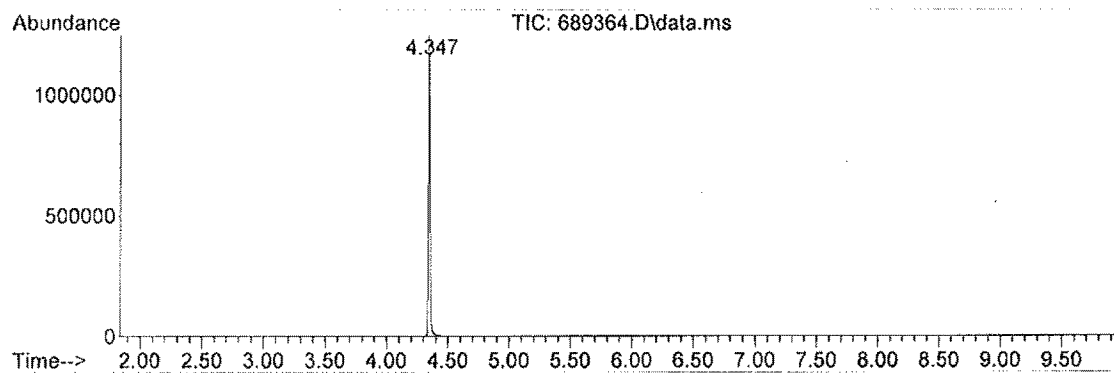
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\*\*\*NO INTEGRATED PEAKS\*\*\*



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689364.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 2:53  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



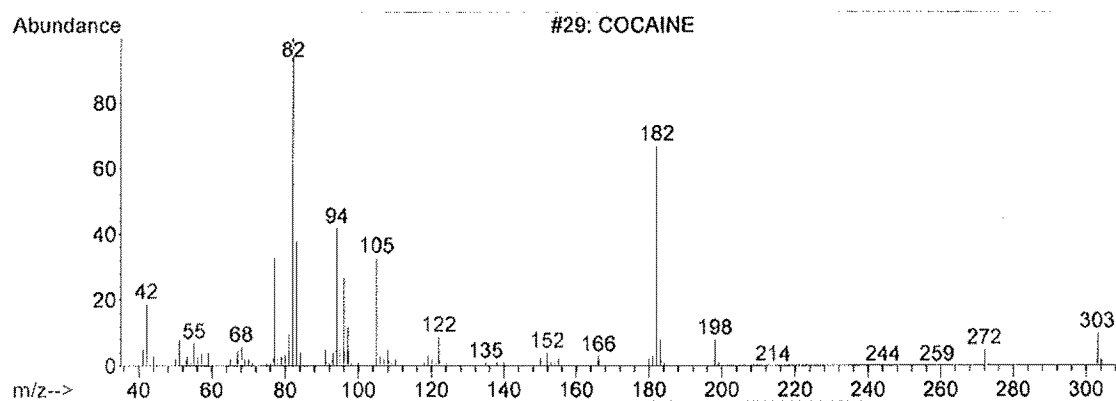
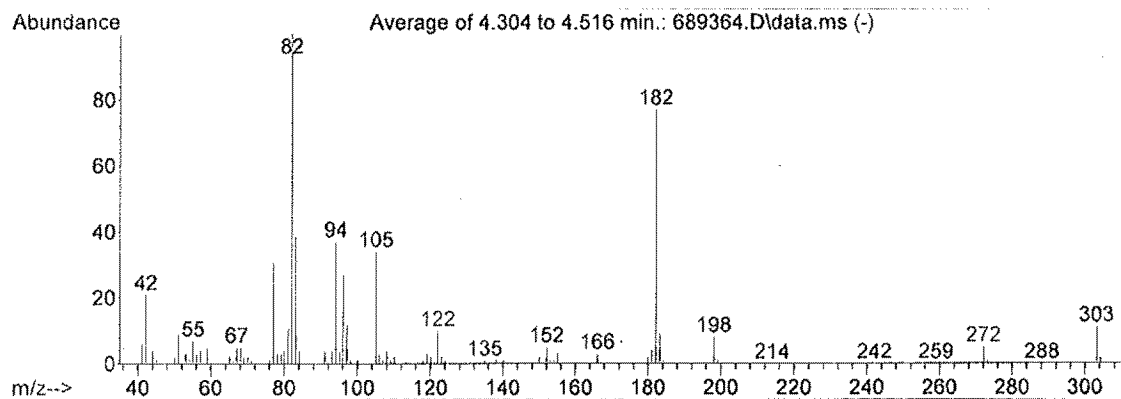
Ret. Time	Area	Area %	Ratio %
4.347	1165249	100.00	100.00

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689364.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 2:53  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

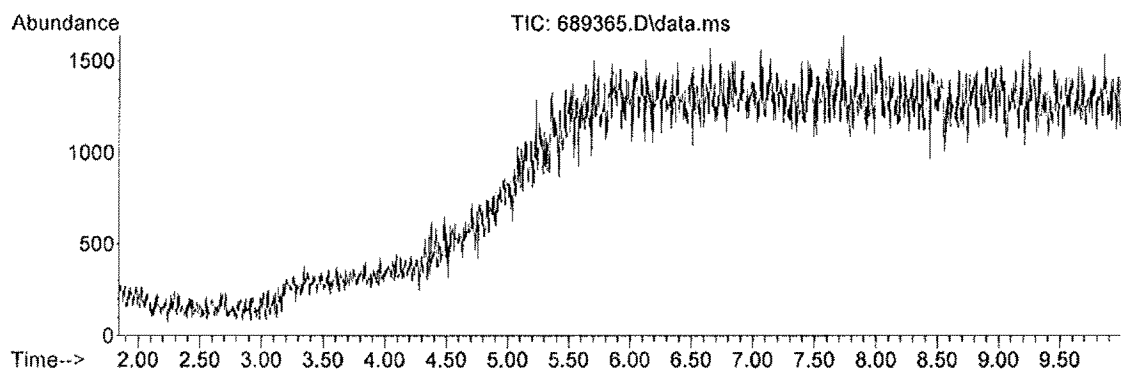
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.35	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689365.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 3:05  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

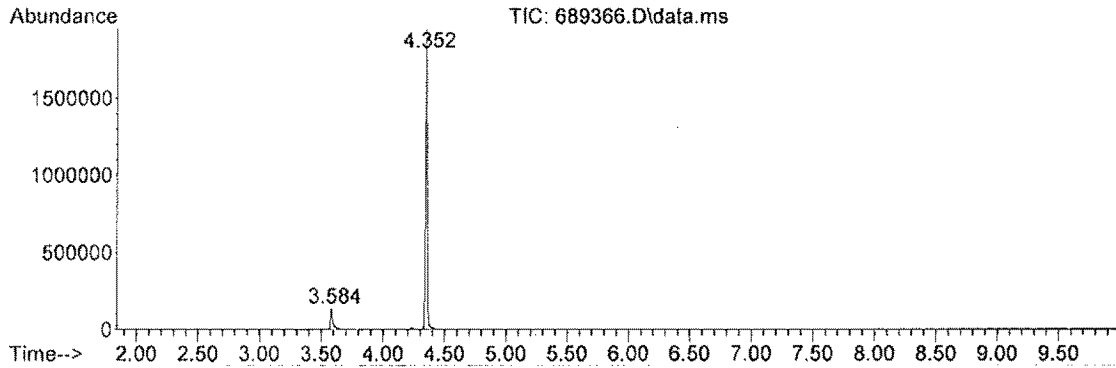


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689366.D  
 Operator : DJR  
 Date Acquired : 29 Dec 2009 3:18  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 66  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.584	207864	9.56	10.57
4.352	1966314	90.44	100.00

Information from Data File:

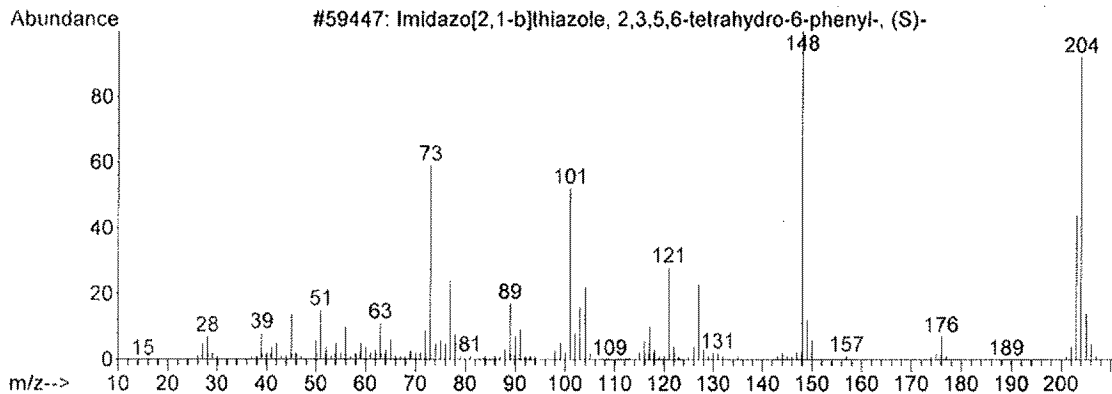
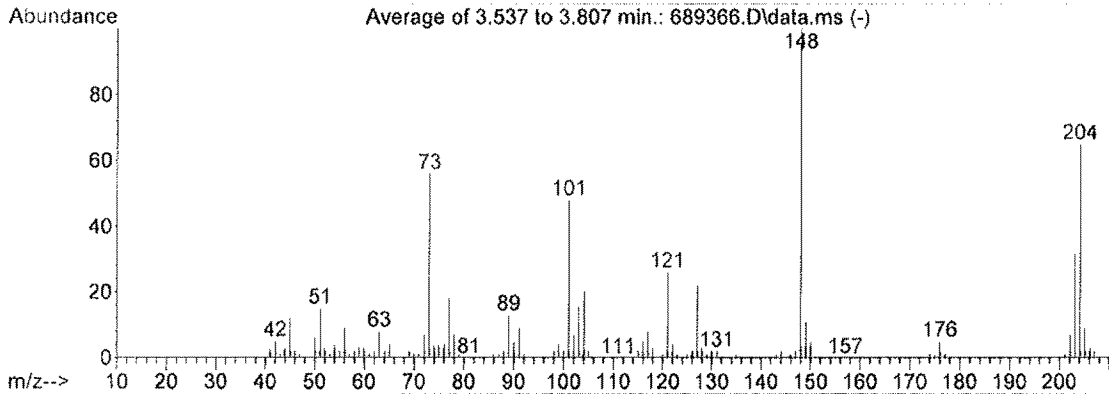
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File Name       : F:\Q4-2009\SYSTEM7\12_28_09\689366.D
Operator        : DJR
Date Acquired   : 29 Dec 2009   3:18
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 66
AcquisitionMeth : DRUGS.M
Integrator      : RTE
    
```

```

Search Libraries: C:\Database\SLI.L           Minimum Quality: 80
                  C:\Database\NIST05a.L       Minimum Quality: 80
                  C:\Database\PMW_TOX2.L
    
```

PK#	RT	Library/ID	CAS#	Qual
1	3.58	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98

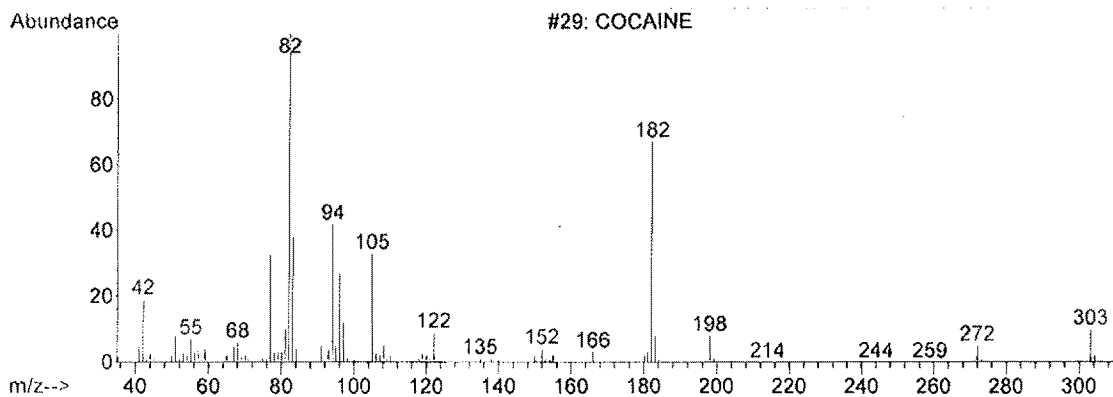
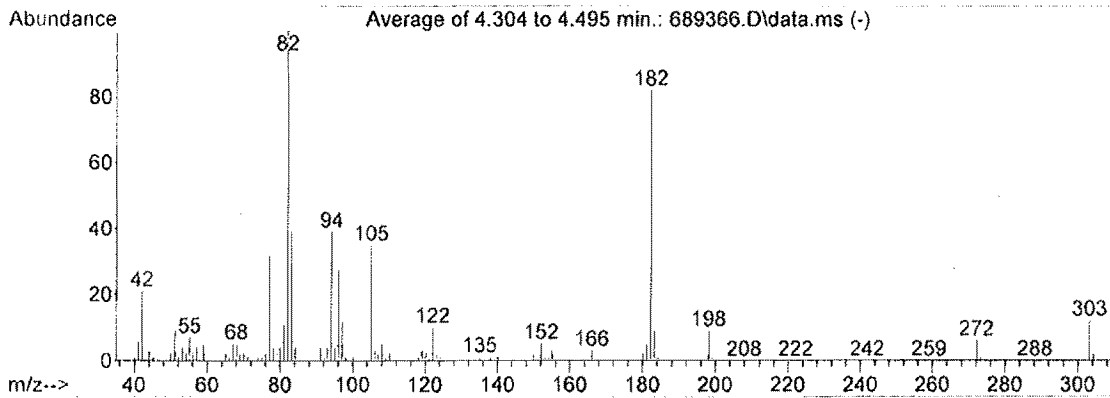


## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689366.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 3:18  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 66  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

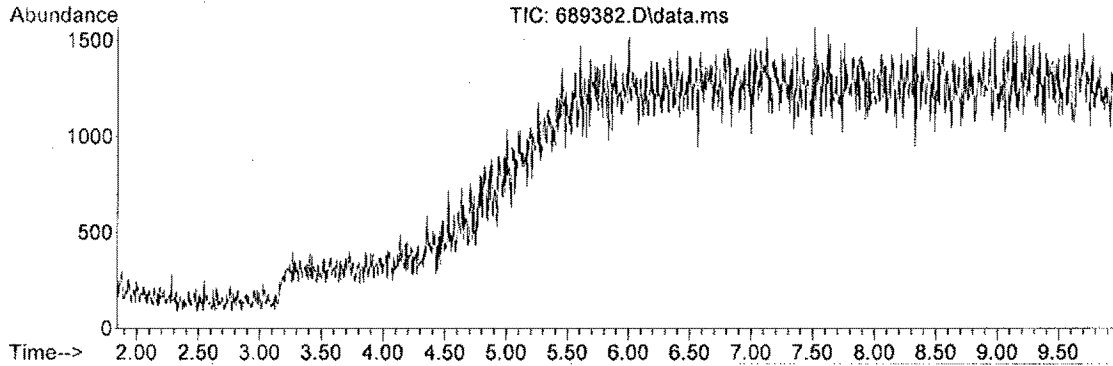
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.35	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689382.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 6:41  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

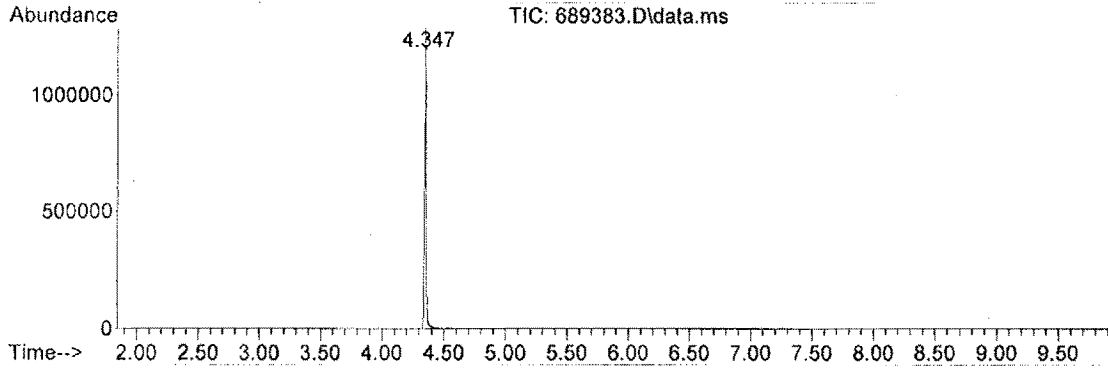


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689383.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 6:54  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 83  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.347	1201529	100.00	100.00



## Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12\_28\_09\689383.D  
Operator : DJR  
Date Acquired : 29 Dec 2009 6:54  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 83  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.35	C:\Database\SLI.L COCAINE	000050-36-2	99

